CONSERVATION PRACTICE PHYSICAL EFFECT WORKSHEET

NOTE: *recorded in Microsoft word 6.0 - use tabs to change cells/fields*

STATE		FIELD OFFICE		DATE	

PRACTICE: 644 Wildlife Wetland Habitat Management	NOTES:
RESOURCE: SOIL **RESOURCE CONCERN: EROSION**	**Help Message: Click on form field for choice lists. Tab key to move around. "N/A" is the default.**
RESOURCE INDICATORS	**PHYSICAL EFFECTS**
SHEET AND RILL	Slight to significant decrease because of establishment or management of permanent cover or reduced tillage, or both.
WIND	Slight to significant decrease because of establishment or management permanent cover or reduced tillage, or both.
EPHEMERAL GULLY	Slight to significant decrease because of establishment or management permanent cover or reduced tillage, or both.
CLASSIC GULLY	Negligible
STREAMBANK	Slight to significant decrease because of establishment of protective riparian vegetation.
IRRIGATION INDUCED	Slight to significant decrease a because of management permanent cover.
SOIL MASS MOVEMENT	Negligible
ROADBANK/CONSTRUCTION	Negligible
OTHER	
RESOURCE CONCERN: **SOIL CONDITION**	
SOIL TILTH	Significant increase because of establishment and management of permanent cover, deposition of organic material, increased microbiological action, and reduced tillage.
SOIL COMPACTION	Significant decrease because of establishment and management of permanent cover, deposition of organic material, increased microbiological action, and reduced tillage.
SOIL CONTAMINATION	
• SALTS	Moderate to significant decrease because of uptake of chemical by hydrophytes.
• ORGANICS	Moderate to significant decrease because of uptake of organic by hydrophytes
FERTILIZERS	Moderate to significant decrease because of uptake of nutrients by hydrophytes
• PESTICIDES	Moderate to significant decreases because of less pesticide use and hydrophytes uptake some pesticide.
• OTHER	
DEPOSITION/DAMAGE	
• ONSITE	Slight to significant increase because establishment of impoundment and hydrophytic plant community which trap sediment.
• OFFSITE	Negligible to significant decrease because of trapping onsite.
DEPOSITION/SAFETY	
• ONSITE	Negligible to slight increase because establishment of impoundment and hydrophytic plant community which trap sediment.
• OFFSITE	Negligible to significant decrease because of trapping onsite.
OTHER	

RESOURCE: **WATER**
RESOURCE CONCERN**: WATER QUANTITY**

RESOURCE INDICATORS	**PHYSICAL EFFECTS**
RESOURCE: **WATER** RESOURCE CONCERN: **WATER QUANTITY**	
SEEPS	Significant to decrease because of water management if seep is incorporate in constructed wetland. Slight to significant increase if seep develops downstream of constructed wetland of if existing seep is managed wetland.
RUNOFF/FLOODING	Slight to moderate decrease because of increased water storage dependent on amount of storage area relative to runoff quantity.
EXCESS SUBSURFACE WATER	Negligible to moderate increase because of water management dependent on extent of impoundment creation and management.
INADEQUATE OUTLETS	Slight to moderate decrease because of water management dependent on location in relation to outlets because temporary or permanent waters storage.
WATER MGT. IRRIGATION	
• SURFACE	Slight to moderate decrease because of water management when used as temporary or permanent source of irrigation water.
• SPRINKLER	Slight to moderate decrease because of water management when used as temporary or permanent source of irrigation water
WATER MGT. NON-IRRIGATED	Slight to significant increase because of water management if wet areas are converted to wetland or if constructed or maintained wetlands contributes to groundwater or inter flow
RESTRICTED FLOW CAPACITY (H_20 convey.)	
• ONSITE	Slight to significant decrease because of increased hydrophytic vegetation and impounded water will reduce erosion and sedimentation.
• OFFSITE	Slight to moderate decrease because of increased hydrophytic vegetation and impounded water will reduce erosion and sedimentation.
RESTRICTED STORAGE	Slight to moderate decrease because of increased hydrophytic vegetation and impounded water will reduce erosion and sedimentation.
OTHER	

RESOURCE: **WATER**
RESOURCE CONCERN**: WATER QUALITY**

GROUNDWATER CONTAMINANTS	
• PESTICIDES	Negligible to moderate decrease because habitat reduces need to use chemicals and increased vegetation will uptake pesticides. Negligible to significant increased if impoundment's cause leaching of pesticide.
• NUTRIENTS AND ORGANICS	Negligible to moderate decrease because wetland management reduces need to add nutrients and uptake of nutrients by hydrophytes. Negligible to significant increased if impoundment's cause leaching of pesticide.
• SALINITY	Negligible to moderate decrease because of uptake of salinity by hydrophytes. Negligible to significant increased if impoundment cause leaching of salinity.
• HEAVY METALS	Negligible to slight decrease because of uptake of heavy metals by

	hydrophytes. Negligible to significant increased if impoundment cause leaching of heavy metals.
• PATHOGENS	Negligible to significant decrease because of assimilation of pathogens by increased microbiological action.
• OTHER	
SURFACE WATER CONTAMINANTS	
• PESTICIDES	Moderate to significant decrease because permanent habitat reduces need to use chemicals and increase vegetation will reduce runoff and transport of pesticide.
• NUTRIENTS AND ORGANICS	Moderate to significant decrease because increased vegetation will reduce runoff and transport of nutrients and organic.
• SUSPENDED SEDIMENTS	Moderate to significant decrease because increased vegetation will reduce runoff and transport of sediment.
• LOW DISSOLVED OXYGEN	Moderate to significant increase because vegetation reduces runoff of sediment and increase streambank vegetation.
• SALINITY	Moderate to significant decrease because permanent vegetation will reduce runoff and transport of salinity.
• HEAVY METALS	Slight to moderate decrease because permanent vegetation will decrease runoff and transport of heavy metals.
• WATER TEMPERATURE	Moderate to significant increase because of increase of retention time of water in impoundment.
• PATHOGENS	Slight to moderate decrease because of increased assimilation of pathogens in wetlands and reduce runoff and transport of pathogens.
AQUATIC HABITAT SUITABILITY	Moderate to significant increased because of establishment and management of wetlands habitat and entrapment of sediments, organic, and nutrients. Improved downstream water quality.
OTHER	
RESOURCE: **AIR** RESOURCE CONCERN: **AIR QUALITY**	
AIRBORNE SEDIMENT AND SMOKE PARTICLES	
• ONSITE SAFETY	Slight decrease because of increase of vegetative cover and impoundment.
• OFFSITE SAFETY	Moderate to significant decrease because of increased of vegetative cover and impoundment.
• ONSITE STRUCT. PROBLEMS	Moderate to significant decrease because of increased of vegetative cover and impoundment
• OFFSITE STRUCT. PROBLEMS	Negligible.
• ONSITE HEALTH	Slight decrease because of increase of vegetative cover and impoundment.
• OFFSITE HEALTH	Slight decrease because of increase of vegetative cover and impoundment
AIRBORNE SEDIMENT CAUSING CONVEYANCE PROBLEMS	Slight decrease because of increase of vegetative cover and impoundment.
AIRBORNE CHEMICAL DRIFT	Slight decrease because of infrequent chemical use.
AIRBORNE ODORS	Negligible to significant decrease because of increased vegetative cover. Slight to moderate increase because some wetland odors are objectionable to some people.
FUNGI, MOLDS, AND POLLEN	Slight increase because of greater variety of plants.
OTHER	
RESOURCE CONCERN: **AIR CONDITION**	
AIR TEMPERATURE	Slight to moderate decrease in summer because of increased

	evaporation and transpiration.
AIR MOVEMENT (windbreak effect)	Slight to moderate decrease because of increased hydrophytic vegetation.
HUMIDITY	Moderate increase because of increased evaporation and transpiration
OTHER	

RESOURCE: **PLANT** RESOURCE CONCERN: **SUITABILITY**	
RESOURCE INDICATORS	**PHYSICAL EFFECTS**
SITE ADAPTATION	Moderate to significant decrease because establishment of adapted vegetation, creation of impoundment and manipulation of water levels.
PLANT USE	Moderate to significant decrease because of establishment of desired vegetation.
OTHER	
RESOURCE CONCERN: **CONDITION**	
PRODUCTIVITY	Moderate to significant decrease because of creation of impoundment and manipulation of water levels resulting in increased productivity of wetland plants.
HEALTH, VIGOR, SURVIVAL	Moderate to significant decrease because creation of impoundment and manipulation of water levels.
OTHER	
RESOURCE CONCERN: **MANAGEMENT**	
ESTAB., GROWTH, HARVEST	Moderate to significant decrease because of creation of impoundment and/or manipulation of water levels resulting in increased productivity of wetland plants.
NUTRIENT MANAGEMENT	Not applicable
PESTS	Moderate to significant decrease because of permanent adapted vegetation will result in less pest and active management will control pest.
THREAT/ENDANGERED PLANTS	sign. benefit to threat./endangered plants
OTHER	
RESOURCE: **ANIMAL** RESOURCE CONCERN: **HABITAT**	
FOOD	Significant decrease because of establishment of adapted hydrophytes or upland food plants and maintenance of water quality .
COVER/SHELTER	Significant decrease because of establishment of adapted hydrophytes and nesting cover.
WATER (QUANTITY & QUALITY)	Slight to significant decrease because of creation and maintenance of impoundment.
OTHER	
RESOURCE CONCERN: **MANAGEMENT**	
POPULATION BALANCE	Slight to significant decrease because of increased plant diversity and increased supply of needed food.
THREAT/ENDANGERED ANIMALS	mod. benefit to threat./endangered animals
HEALTH	moder. improvement in animal mgt./ health
OTHER	
RESOURCE: **HUMAN** RESOURCE CONCERNS**: ECONOMIC CONSIDERATIONS**	

PLAN / COST EFFECTIVENESS	N/A
CLIENT FINANCIAL CONDITION	N/A
MARKETS FOR PRODUCTS	N/A
AVAILABLE LABOR	N/A
AVAILABLE EQUIPMENT	N/A

RESOURCE: **HUMAN** RESOURCE CONCERN: **SOCIAL CONSIDERATIONS**	
RESOURCE INDICATORS	**PHYSICAL EFFECTS**
PUBLIC HEALTH AND SAFETY	N/A
PRIVATE/PUBLIC VALUES	N/A
CLIENT CHARACTERISTICS	N/A
RISK TOLERANCE	N/A
TENURE	N/A
OTHER	
RESOURCE CONCERN: **CULTURAL CONSIDERATIONS**	
ABSENCE/PRESENCE OF CULTURAL RESOURCES	N/A
SIGNIFICANCE OF CULTURAL RESOURCES	N/A
MITIGATION OF NEGATIVE CULTURAL RES. IMPACTS	N/A
OTHER	